

Department of Energy

Richland Operations Office P.O. Box 550 Richland, Washington 99352

95-PCA-094

DEC 28 1994

Mr. David L. Lundstrom
Section Manager
200 Areas
Nuclear Waste Program
State of Washington
Department of Ecology
1315 West Fourth Avenue
Kennewick, Washington 99336

Mr. Douglas R. Sherwood Hanford Project Manager U.S. Environmental Protection Agency 712 Swift Boulevard, Suite 5 Richland, Washington 99352

Dear Messrs. Lundstrom and Sherwood:

HANFORD FACILITY DANGEROUS WASTE PART A PERMIT APPLICATION FORM 3, REVISION 2, FOR THE PLUTONIUM-URANIUM EXTRACTION STORAGE TUNNELS (WA7890008967) (TSD: S-2-1)

Enclosed is the Hanford Facility Dangerous Waste Part A Permit Application (Part A) Form 3, Revision 2, for the Plutonium-Uranium Extraction (PUREX) Storage Tunnels. The PUREX Storage Tunnels are located in the 200 East Area of the Hanford Facility and are used for the storage of failed PUREX Plant equipment.

The Part A, Form 3, has been revised to add Dangerous Waste Numbers D006 (cadmium), D007 (chromium), State-only Waste Numbers WT01 (toxic, extremely hazardous waste), and WC02 (carcinogenic, dangerous waste) to existing Process Code S05 (storage-miscellaneous). Also, State-only Dangerous Waste Numbers WT02 (state-only, toxic, dangerous waste) and WP01 (state-only, persistent, extremely hazardous waste) have been added to Process Code S05 for fluorothene. State-only Dangerous Waste Number WT01 was removed from Dangerous Waste Number D008 (lead) in accordance with Washington Administrative Code 173-303-100. The Part A, Form 3, also has been revised to convert all English based measures to metric in accordance with U.S. Department of Energy direction.

The revisions to this Part A, Form 3, have been made to allow for additional storage activities associated with PUREX Plant transition efforts. These changes to the Part A, Form 3, were made in compliance with Washington Administrative Code 173-303. This regulation requires the submittal of a revised Part A, Form 3, that addresses the identification of a previously unidentified dangerous waste to be stored at a treatment, storage, and/or disposal unit under interim status.

Messrs. Lundstrom and Sherwood 95-PCA-094

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Should you have any questions regarding the PUREX Storage Tunnels Part A, Form 3, please contact Mr. C. E. Clark of the U.S. Department of Energy, Richland Operations Office on (509) 376-9333 or Mr. R. C. Bowman of the Westinghouse Hanford Company on (509) 376-4876.

Sincerely,

James E. Rasmussen, Acting Program Manager Office of Environmental Assurance,

Permits, and Policy

DOE Richland Operations Office

EAP:CEC

William T. Dixon, Manager Environmental Services Westinghouse Hanford Company

Enclosure:

Plutonium-Uranium Extraction Storage Tunnels Dangerous Waste Part A Permit Application Form 3, Revision 2

cc w/encl:

EDMC, H6-08

Administrative Record

- R. Bowman, WHC
- B. Burke, CTUIR
- D. Duncan EPA
- M. Jaraysi, Ecology
- R. Jim, YIN
- D. Powaukee, NPT
- S. Price, WHC

cc w/o encl:

W. Dixon, WHC

ENCLOSURE

9 13304.2642 PUREX Storage Tunnels Rev. 2, 12/28/94, Page 1 of 9

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| | Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number in Section I above. A. FIRST APPLICATION (place an "X" below and provide the appropriate data) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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Continued from the front.

III. PROCESSES (continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (code "TO4"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

S0:

The PUREX Storage Tunnels are a miscellaneous unit (SO5) used for storage of mixed waste subject to the requirements of 40 CFR 264, Subpart X. The two tunnels are designed to store discarded equipment. Since being placed into service, various types of equipment containing mixed waste have been stored in the tunnels on railcars. Not all equipment stored in the tunnels contain mixed waste.

The construction of Tunnel 1 was completed in 1956. The maximum storage volume of the tunnel is approximately 4,129 cubic meters (5,400 cubic yards). The tunnel is approximately 5.8 meters (19 feet) wide by 6.7 meters (22 feet) high by 107 meters (350 feet) long and provides storage space for eight railcars. Between June 1960 and January 1965, all eight railcar positions were filled and the tunnel was subsequently sealed. The combined volume of the equipment stored in Tunnel 1 is approximately 596 cubic meters (780 cubic yards).

The construction of Tunnel 2 was completed in 1964. The maximum storage volume of the tunnel is approximately 19,878 cubic meters (26,000 cubic yards). Tunnel 2 is approximately 5.8 meters (19 feet) wide by 6.7 meters (22 feet) high by 512 meters (1,680 feet) long and provides storage space for 40 railcars. The first railcar was placed in Tunnel 2 in December 1967 and as of October 1994, 19 railcars have been placed in the tunnel. The combined volume of equipment stored on the 19 railcars presently in Tunnel 2 is approximately 1,529 cubic meters (2,000 cubic yards).

IV. DESCRIPTION OF DANGEROUS WASTES

- A. DANGEROUS WASTE NUMBER Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit number(s) that describes the characteristics and/or the toxic contaminants of those dangerous wastes.
- B. ESTIMATED ANNUAL QUANTITY For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
- C. UNIT OF MEASURE For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

| ENGLISH UNIT OF MEASURE | CODE | METRIC UNIT OF MEASURE CODE |
|-------------------------|------|-----------------------------|
| POUNDS | P | KILOGRAMS K METRIC TONS |

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right that of Rem. IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: DANGEROUS WASTES DESCRIBED BY MORE THAN ONE DANGEROUS WASTE NUMBER - Dangerous wastes that can be described by more than one Waste Number shall be described on the form as follows:

- Select one of the Dangerous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
- 2. In column A of the next line enter the other Dangerous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
- 3. Repeat step 2 for each other Dangerous Waste Number that can be used to describe the dangerous waste.

EXAMPLE FOR COMPLETING SECTION IV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

| Г | Τ | | | | | | | D. PROCESSES | | | | | | | | | |
|------|-----|------------------------|------|-----|--|---|--------------------------|--------------|-----|-----|------|---|---|---|---|---|---------------------|
| F-ZE | אוי | DANGEROUS WASTE NO. | | ۱.۵ | B. ESTIMATED ANNUAL QUANTITY OF WASTE | C. UNIT OF MEA- SURE (enter code) | 1. PROCESS CODES (enter) | | | | | | | | | 2. PROCESS DESCRIPTION (If a code is not entered in D(1)) | |
| X-1 | K | 1 | ، ار | 5 | 4 | 900 | P | TO | 3 1 | ٦, | ٥ ا | | П | T | | Г | |
| X-2 | D | 7 | 7 | 0 | 2 | 400 | P | TO | 3 1 | ٦ و | 0 | | | T | Т | | |
| X-3 | D | 1 | 7 | 0 | 1 | 100 | Р | TO | 3 1 | ٦, | , 10 | T | | Ť | | | |
| X-4 | D | 1 | 2 4 | 0 | 2 | | | TO | 3 1 | 7 | 0 | | | T | | | included with above |

Continued from page 2. NOTE: Photocopy this page before completing if you have more than 26 wastes to list. I.D. NUMBER (entered from page 1) W A 7 8 9 0 0 0 8 9 6 7 IV. DESCRIPTION OF DANGEROUS WASTES (continued) D. PROCESSES C. UNIT OF MEA-SURE N DANGEROUS O WASTE NO. 8. ESTIMATED ANNUAL QUANTITY OF WASTE 1. PROCESS CODES 2. PROCESS DESCRIPTION (if a code is not entered in D(1)) (anter (enter code) (enter) K plolo <u>\$05</u> 454* <u> Storage - Miscellaneous</u> WIT 2 0 3 lw I C 0 ه ا ما 7 0 5 0 lΤ 1 W lc. 0 2 7 D 0 0 8 2,722* D 0 9 0 45* T 1 0 10 b 0 1 1 680* D 0 1 0 W Т 0 1 13 P 0 1 585* 14 2 W lΤ Ol Included With Above 15 The estimated annual quantity of waste listed above represent the maximum quantity of waste placed in either tunnel in a given year. Future operations might necessitate an increase in excess of these estimates and a permit application revision could be pursued as required by dangerous waste regulations. 20 21 o22 T 23 24 25 26

| Continued from the front. | | • | | | |
|---|--|--|--|--|---|
| IV. DESCRIPTION OF DANGER | | | | | |
| E. USE THIS SPACE TO LIST A | ADDITIONAL PROCESS CODES | FROM SECTION D(1 | ON PAGE 3. | | |
| (D009) in the di cadmium (D006) i | issolvers, chromi in canyon equipmen | um residue (nt and other | D007) in c solid was | concentrators are te, and silver | rweights, mercury nd other solid waste, salts (DOII) from the ecause of the presence |
| of silver nitrat (WTO1), toxic, o | | s waste may WTO2), carci | be conside nogenic, d | red toxic, exti langerous waste | remely hazardous waste (WCO2), and/or |
| | l in the tunnels | | | imateu amount (| or mixed waste |
| TUNNEL NUMBER | DANGEROUS WASTE | <u>AMO</u> l | INT ¹ | LOCATION IN T | UNNELS ² |
| 1 | Lead (elemental) Silver Salts ³ | 227 737 | kg | Positions 2 a | |
| 2 | | | | Positions 5 a | |
| | Mercury (element | al) 129 | kg | Positions 7, | 9, and II |
| | Fluorothene | 180 | | Position 14 | |
| | Lead (elemental) | | • | Positions 14 | and 15 |
| | Cadmium | 13 | | Position 15 | |
| | Chromium | .025 | kg | Position 20 | |
| 3- A mixture 4 - Expressed 5 - Fluorother Polytriflu | ositions start from the of silver nitrate, silver nitrate, silve as kilogram-equivalent ne - The trademark of Uruoromonochloroethylene, adensity of 2.12 g/cm ³ . | ver halides and of silver nitra- nion Carbide Corp | silver fines. :e. | tion I faithest south | ,. |
| V. FACILITY DRAWING | Refer to attached dr. | | | | |
| All existing facilities must include | | | of the facility (see | instructions for more deta | ii). |
| VI. PHOTOGRAPHS | Refer to attached ph | - 1 | | | |
| all existing facilities must include sites of future storage, treatment | de photographs <i>(aerial or grour</i> nt or disposal areas <i>(see instru</i> | id-level) that clearly (ections for more detail | lekneate all existin //). | g structures; existing stora | ge, treatment and disposal areas; and |
| VII. FACILITY GEOGRAPHIC LO | | | | | awings and photos. |
| LATITUDE | (degrees, minutes, & seconds | | | | s, minutes, & seconds) |
| | | | | | |
| VIII. FACILITY OWNER | | | | | |
| x A. If the facility owner is all below. | so the facility operator as listed | d in Section VII on Fo | rm 1, "General Inf | ormation", place an "X" in | the box to the left and skip to Section IX |
| B. If the facility owner is no | t the facility operator as listed | in Section VII on Fo | | following items: | |
| | | <u> </u> | | | 2. PHONE NO. (area code & no.) |
| 3, STREE | T OR P.O. BOX | | 4. CITY OF | TOWN | 5. ST, 6. ZIP CODE |
| IX. OWNER CERTIFICATION | | | | | |
| certify under penalty of law the | nt I have personally examined a | and am familiar with | the information sul | omitted in this and all attac | hed documents, and that based on my |
| nquiry of those individuals imme there are significant penalties for NAME (print or type) | | | | | accurate, and complete. I am aware that |
| John D. Wagoner, Manager | 1 | | 177 | | DATE SIGNED |
| J.S. Department of Energy | ı | را ارد برلاط | . Way on | 11. | 12/28/94 |
| Richland Operations Offic X. OPERATOR CERTIFICATION | e | Armere | | | (-0/./ |
| | t I have personally examined | d am familiar with | he information ent | mitted in this and all attac | had documents and that have de- |
| nquiry of those individuals imme here are significant penalties for NAME (print or type) | diately responsible for obtain r submitting false information, | g the information, I including the possibi SIGNATURE | believe that the sullity of fine and imp | bmitted information is true, risonment. | hed documents, and that based on my accurate, and complete. I am aware that |
| ip.iiii. wi appat | | O'GIAV LAVE | | | DATE SIGNED |
| SEE ATTACH | MENT | | | | |

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Owner/Operator

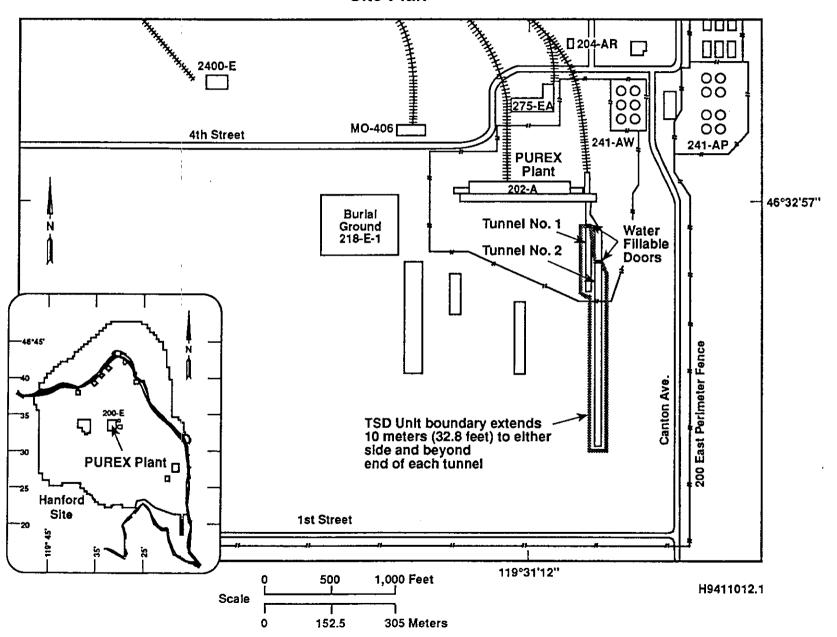
John D. Wagoner, Manager U.S. Department of Energy Richland Operations Office

Date 12/28/94

Co-operator

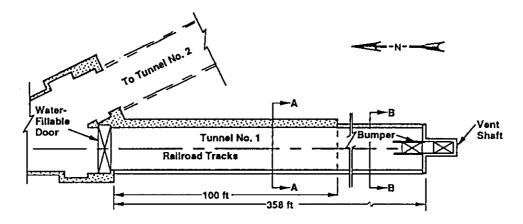
A. LaMar Trego, President Westinghouse Hanford Company 12/7/94

PUREX Storage Tunnels Site Plan

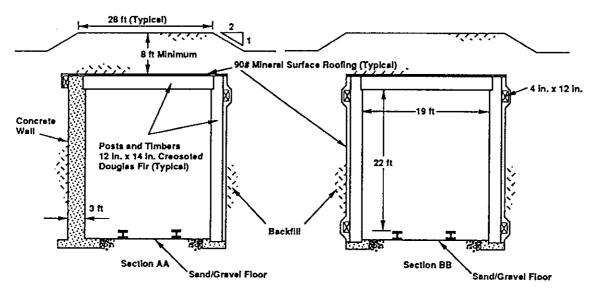


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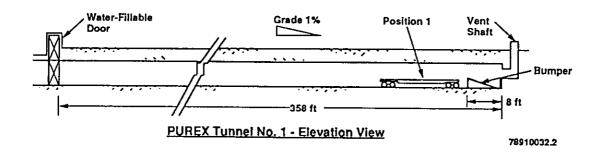
PUREX TUNNEL NO. 1 - DETAILS



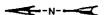
Tunnel No. 1 - Plan View

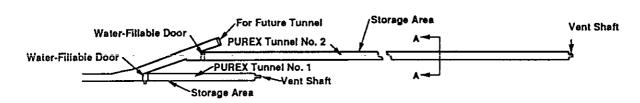


PUREX Tunnel No. 1 - Section Views

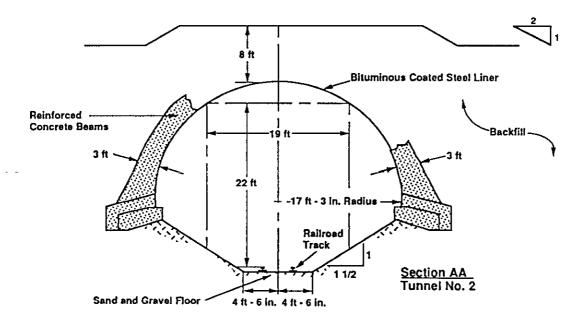


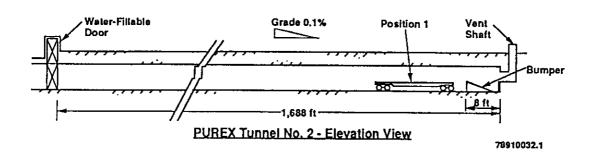
PUREX TUNNEL NO. 2 - DETAILS



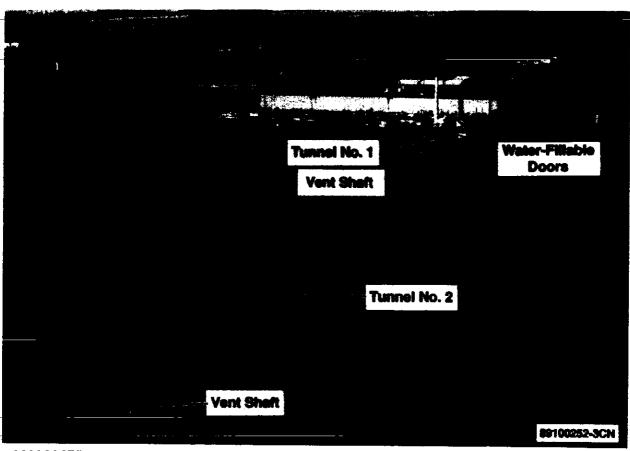


PUREX Tunnels - Plan View





PUREX STORAGE TUNNELS



46°32'47" 119°31'07"

89100252-3CN (PHOTO TAKEN 1989)